PROPOSED CLAIM AMENDMENT

1.   (Currently Amended) In a computer system, a method for providing improved real time command execution in a non real time operating system, comprising:

executing at least one application at a user mode level of the non real time operating system running on ~~from~~ at least one CPU ~~running the non real time operating system~~;

having said at least one application at said user mode level determine a sequence to be followed for a set of commands;

providing from said at least one application said sequence of commands to a privileged mode of said non real time operating system to be executed in real time;

storing ~~said sequence of~~ commands of said sequence of commands in a command queue to be accessible from the privileged mode;

accessing the command queue from a software command dispatcher operating in a privileged mode of the non real time operating system and selecting the commands therefrom; and

initiating one at a time, from the privileged mode and using the at least one CPU and the software command dispatcher, real time execution of each of said commands ~~from said stored sequence of commands~~.

2.   (Original) The method as claimed in claim 1, wherein a plurality of sequences of asynchronous commands is provided, each sequence being related to a corresponding application thread, further wherein said storing said sequence of commands is performed in a corresponding queue from the execution of said corresponding application thread.

3.   (Original) The method as claimed in claim 1, wherein a synchronous command is added to said sequence of commands, said at least one application sleeping until said synchronous command is executed.

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4.   (Original) The method as claimed in claim 2, wherein a synchronous command is added to said sequence of asynchronous commands, said corresponding application thread sleeping until said synchronous command is executed.

5.   (Original) The method as claimed in claim 1, wherein said non real time operating system is Microsoft Windows and said storing said sequence of commands is performed through execution of a driver routine from a DLL file.

6.   (Original) The method as claimed in claim 5, wherein said providing said sequence of commands involves said commands being pushed one at a time through a system call.

7.   (Original) The method as claimed in claim 1, wherein at least one of said stored commands is a branch command to control the order of execution of said stored commands.

8.   (Original) The method as claimed in claim 1, wherein said executing said commands from said stored sequence of commands is done at a different privileged mode level.

9.   (Original) The method as claimed in claim 8, wherein said different privileged mode level is that of Interrupt Service Routine, whereby delay between the execution of successive commands is minimized.

10.   (Original) The method as claimed in claim 9, wherein said non real time operating system is Microsoft Windows.

11.   (Original) The method as claimed in claim 1, wherein said sequence of commands process a same data set.

12.   (Original) The method as claimed in claim 11, wherein said same data set is a video camera image being captured and processed in real time.

13.   (Original) The method as claimed in claim 1, wherein said providing said sequence of commands involves said commands being pushed one at a time through a system call.

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14.   (Original) The method as claimed in claim 1, wherein said storing said sequence of commands is performed through execution of a driver routine from a system file.

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